

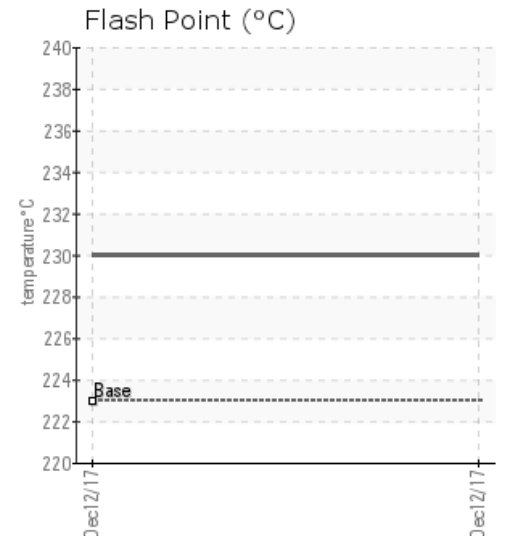
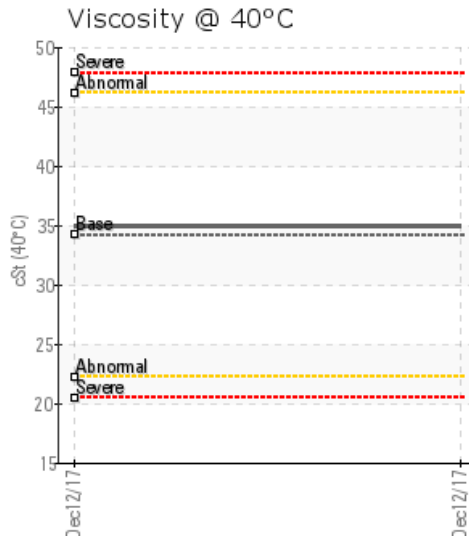
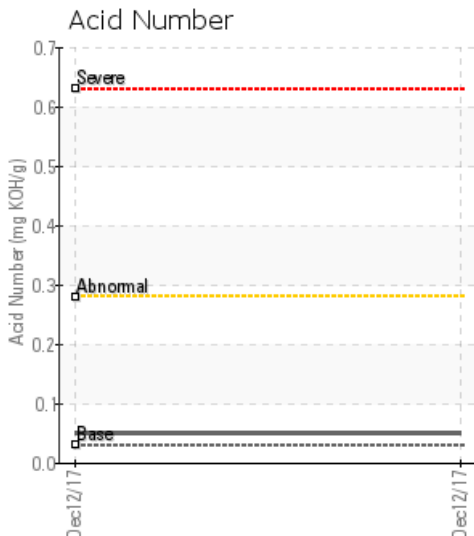
## [2-25-38-9W5] Z-1910 REFRIDGE

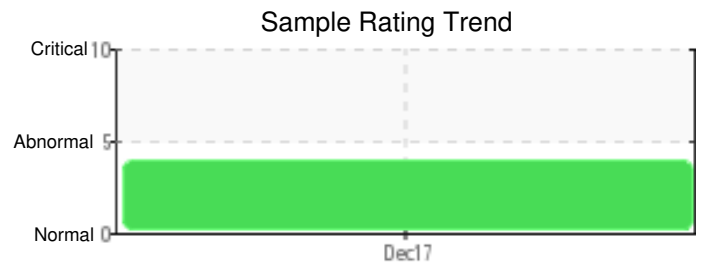
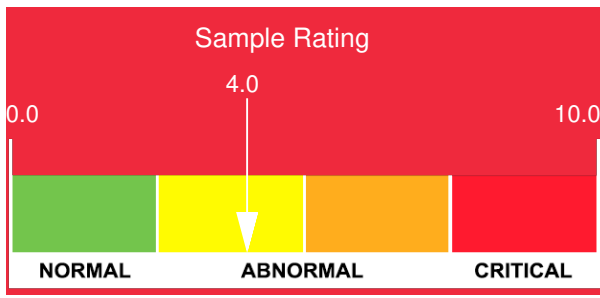
Customer: PTRHTF20192	System Information	Sample Information
Petrus Resources Corp 2400, 240 – 4th Avenue S.W. 02-25-38-9W5 Rocky Mountain House Calgary, AB T2P 4H4 Canada Attn: Jamin Severson Tel: (403)844-0600 E-Mail: jseverson@petrusresources.com	System Volume: 9500 ltr Bulk Operating Temp: 392F / 200C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: 5-BLUE	Lab No: 02189829 Analyst: Terry Veenstra Sample Date: 12/12/17 Received Date: 12/22/17 Completed: 01/08/18 To discuss this report contact Terry Veenstra at (780)591-5339

Recommendation: Sample indicates the presence of water in the system. Consider venting the system for removal of steam to get rid of water. GCD @ 90% indicates that oil may have experienced some thermal cracking however it is still OK to operate. Otherwise sample indicates that fluid is in satisfactory condition.

Comments: ppm Water contamination levels are marginally high. Water contamination levels are marginally high. (GCD) 90% Distillation Point is marginally high.

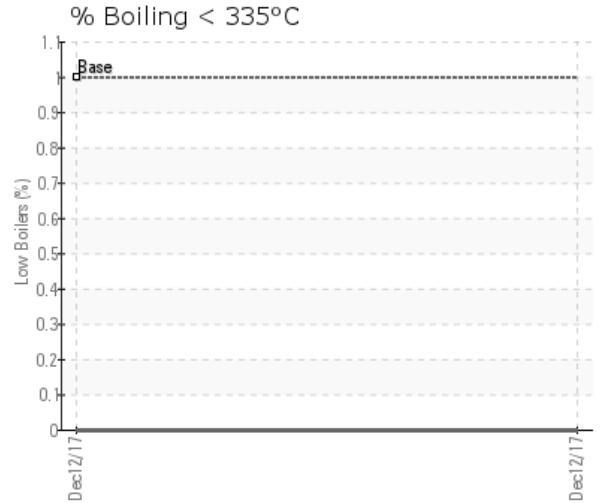
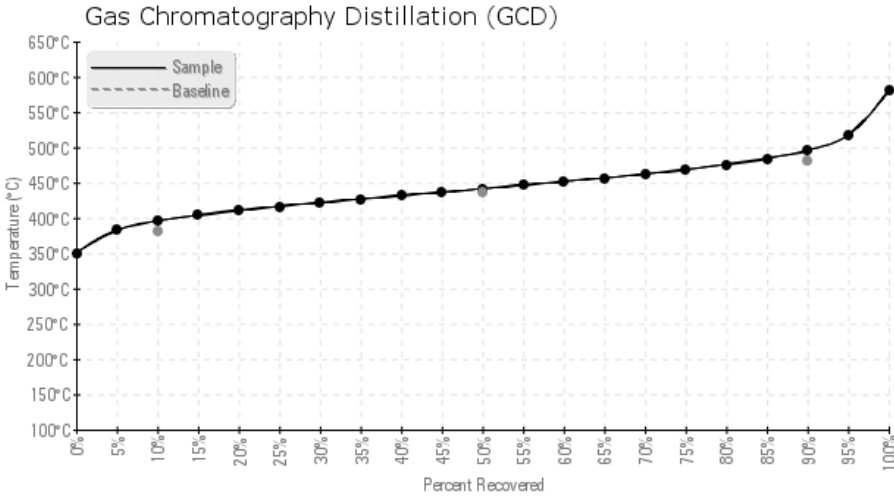
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/12/17	12/22/17	2m		446 / 230	371.7	35.0	0.050	0.049	744 / 396	826 / 441	924 / 496	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
12/12/17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0						0				0	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	

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